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**PPI Wallet Mandate Implementation\_API Document**

**Dated:** 06-April-2023

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# Review History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Version** | **Changes** | **Author** | **Reviewer** |
| 04 April 2022 | 1.0 | PPI Wallet-Mandate Implementation API\_Document. | Venkata Krishna, Siva | Mahender, Rajasekhar |
| 06 April 2022 | 1.1 | Added Callback APIs for mandates | Venkata Krishna, Siva | Mahender, Rajasekhar |
| 10-April -2023 | 1.2 | Mandate Check Status Api some extra parameters added and notification url changed | Venkata Krishna,  Siva | Mahender, Rajasekhar |
| 11-03-2024 | 1.3 | Mandate Notifiction callback failure response sample response added | Venkata Krishna | Mahender,  Rajasekhar |

# Introduction

This document describes the APIs required for interaction/integration between PPI Wallet Partner and Olive UPI PPI Switch.

* All APIs listed are Server → Server (PPI Partner → PSP Server).
* All APIs return common response elements in addition to the listed payload.
* All APIs are RESTful and will use HTTPS POST.
* All data is formatted with JSON.

# Security

As part of the security mechanism, PGP/AES algorithms are used to encrypt the parameter and process the request.

The encrypted data passed in the payload parameter of each API.

As an example, if the payload data is:

{

"txnid": "AXIPEK5k6i6t9c0c3rap7o08I7T92665k99"

}

Then the encrypted data will be:

String encryptedData = Encrypt('{"txnid": "AXIPEK5k6i6t9c0c3rap7o08I7T92665k99"}');

Then the payload sent to PSP will be:

{

"payload": encryptedData

}

Timestamp parameter pattern across overall document is *YYYY-MM-DDTHH:mm:ss* e.g. 2022-01-11T13:16:44

**Common API Input and Output Elements**

To support error handling, tracking etc., the following common Request and Response fields are used across all APIs.

**Common Request Fields**

These fields will be part of all API Requests from PPI Wallet Channel to PSP.

|  |  |  |  |
| --- | --- | --- | --- |
| **SN** | **Field** | **Type** | **Description** |
| 1 | channelid (M) | String (fix2) | Code to indicate the origin of this transaction “DN”  A unique channel code will be assigned by the PSP Switch. |
| 2 | txnid (M) | String (fix35) | Transaction Id for API call (a unique ID generated on PPI  Wallet Channel side)  ● Transaction id generated from UUID logic |
| 3 | payload(M) | String | Encrypted String - Json String encrypted with AES / PGP algorithm. |

**Sample request for “Register”:**

{

"channelid": "DN",

"txnid": "PPIDNK5k6i6t9c0c3rap7o08I7T92665k99",

"payload": "Encryptd String "

}

**Common Response Fields**

These fields will be part of all responses from PSP switch to PPI Wallet Chanel.

|  |  |  |  |
| --- | --- | --- | --- |
| **SN** | **Field** | **Type** | **Description** |
| 1 | channelid(M) | String (fix2) | Code to indicate origin of this transaction “XX” |
| 2 | txnid(M) | String (fix35) | Transaction Id for API call (should echo txnid input) |
| 3 | data(M) | String | Encrypted String - Json String encrypted with AES / PGP algorithm. |
| 4 | subcode(M) | String (fix5) | Sub error code - detailed error code. |
| 5 | subresult(M) | String (max255) |  |
| 6 | result(M) | String (max10) | SUCCESS/ FAILURE/TIMEOUT |
| 7 | timestamp(M) | String (max20) | The timestamp format be:YYYY-MM-DDTHH:mm:ss  Ex:2022-01-11T13:16:44 |
| 8 | Latency | String (max10) | Latency of the transaction in MilliSeconds. |

**Sample response:**

{

"channel code": "DN",

"txnid": "PPIDNK5k6i6t9c0c3rap7o08I7T92665k99",

"data": " Encrypted String ",

"subcode": "RE000",

"subresult": "success",

"result": "Success",

"timestamp": "2022-01-06T12:25:06",

"latency": "12345"

}

# 1. Request Payer/Payee Create Mandate

Payer/Payee can initiate mandate creation requests.

Method Type: POST

Url:

https://<IP:PORT>/v1/ppi/mandate/create?channelid=RAPAY1&txnid=RAPahjajdvjvasjdvjjhn

**Request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| txnid(M) | String (fix 35) | Transaction Id(used to correlate Request and Response between Bank and NPCI.) |
| trantype(M) | String (max 10) | CREATE |
| initiatedby(M) | String (fix 16) | PAYER, PAYEE |
| validitystart(M) | String (fix 8) | Defines start time of request validity |
| validityend(M) | String (fix 8) | -Defines end time of request validity  - Format should be DDMMYYYY Example 01022020 |
| amountrule(M) | String (fix 5) | Defines amount rule MAX|EXACT |
| recurrencePattern(M) | String (max 15) | Defines recurrence pattern  ONETIME | DAILY | WEEKLY | MONTHLY  | BIMONTHLY | QUARTERLY | HALF  YEARLY | YEARLY | ASPRESENTED |  FORTNIGHTLY |
| rule\_value(C) | String (max 2) | ONETIME, DAILY, AND ASPRESENTED should not have any rules If frequency is weekly then recurrence value should be from 1- Monday to 7-sunday  If frequency is fortnightly, then recurrence value should be from 1 to 15/16 days  If monthly/bimonthly/Quarterly/Half yearly/yearly, then recurrence value should be from 1 to 30/31 days. If 30/31 is not available for any given month the last day of the month will be considered.  ASPRESENTED should not have any rules |
| rule\_type(C) | String (max 6) | Not applicable if recurrence is ONETIME  BEFORE | ON | AFTER  -Definitions of each value is as per NPCI specifications  rule Type;//(O)BEFORE|ON|AFTER Not applicable if recurrence is ONETIME |DAILY  | ASPRESENTED |
| revokeable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel.  If N, only payee can cancel the mandate. |
| sharetopayee(M) | String (fix 1) | Y | N  If it is N, then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| umn(C) | String (max 32) | Unique Mandate Number  umn will be created by customer/Payer PSP & UMN length to be 32 digits in UUID Logic (the UMN should be random, non-guessable and active UMN should be unique. E.g format  130a977ccabb11e7abc4cec278b6b50a@myps p)  In case of payer initiated, it is mandatory  In case of payee initiated, it is not required  That's why the field is mentioned as conditional |
| rrn(O) | String (max 12) | RRN |
| refid(O) | String (max 35) | Unique Reference Number |
| orderid(O) | String (max 35) | Order ID is used to populate the Consumer reference number to Identify (like Loan number, etc.) |
| amount(M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex: - 11.00 |
| initmode(M) | String (max 2) | - For UPI mandate there will be always 00+ Example 00 |
| purpose(M) | String (max 2) | Purpose code Default value 00 14- Recurrence |
| remarks(M) | String (max 50) | Remarks |
| payrefnumber(O) |  |  |
| device(M) | | |
| mobile(M) | String (fix 12) | Initiator mobile number |
| geocode(M) | String (max 50) | Latitude and Longitude Ex: 12.9667,77.5667 |
| location(M) | String (max 50) | Ex:Sarjapur Road, Bangalore, KA, IN |
| ip(M) | String (max 50) | Source IP address. Ex: 123.456.123.123 |
| type(M) | String (max 10) | Device Type Ex: MOB |
| id(M) | String (max 15) | Device IMEI number |
| os(M) | String (max 50) | Device OS Ex: Android 4.4 |
| appid(M) | String (max 50) | UPI playstore registered appid, same appid used to generate in token calls |
| capability(O) | String (max 6) | Ex: 011001 |
| gcmid(O) | String (max 50) | GCMID generated by google |
| version(O) | String (max 50) | App version Ex: v1.0 |
| payerinfo(M) | | |
| name(M) | String (max 99) | Payer Name |
| accountnumber(M) | String (max 15) | Payer Account Number |
| vpa(M) | String (max 255) | Payer VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code Person:0000 merchant:1520/6512.. |
| mobile(M) | String (max 12) | Payer Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payer account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| payeeinfo(M) | | |
| name(O) | String (max 99) | Payee Name |
| accountnumber(O) | String (max 15) | Payee Account Number |
| vpa(M) | String (max 255) | Payee VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(O) | String (max 12) | Payee Mobile Number |
| accounttype(O) | String (max 10) | Type of the account |
| ifsc(O) | String (fix 11) | Payee account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| appid(O) | String (max 50) | Application Id |
| expiry(C) | String (1...64800) | For Payee initiated Mandate expiry is required.The value should be in minutes, or the default value will be considered i.e. 30 |
| approvalRef(O) | String (max 255) | Approval Reference Number |
| refurl(O) | String (max 99) | Invoice URL |
| orgRrn(O) | String (fix 12) | Original RRN |
| blockfund(M) | String (fix 1) | (Y | N) ,for one - time Mandate always it will  be Y. And for recurrence mandate it will be  N. Example: Y |
| seqNum(O) | String (max 2) | Sequence Number is used to identify mandate series.  - In case of mandate re-execution, he needs to use the same sequence number of failed transactions. |

**Sample json request:**

// Json String to be encrypted with AES/PGP and sent in the payload parameter.

{

"txnid": "RPYbff3eebfe397496baa3f994f820b55e9",

"trantype": "CREATE",

"initiatedby": "PAYER",

"validitystart": "14112022",

"validityend": "30112022",

"amountrule": "MAX",

"recurrencePattern": "ONETIME",

"revokeable": "Y",

"sharetopayee": "Y",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdha4@rapypay",

"rrn": "45646665653",

"refid": "5554165623",

"orderid": "123456",

"amount": "11.00",

"initmode": "00",

"purpose": "00",

"remarks": "createMandate",

"payrefnumber": "0",

"device": {

"mobile": "916281923399",

"geocode": "17.5221503,78.3045558",

"location": "hyd",

"ip": "127.0.0.1",

"type": "MOB",

"id": "916281923399",

"os": "android",

"appid": "com.olive.upi.rapypay",

"capability": "110010"

},

"payerinfo": {

"name": "krishna",

"accountnumber": "916281923399",

"vpa": "raja@rapypay",

"mcc": "0000",

"mobile": "916281923399",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"payeeinfo": {

"name": "cnu",

"accountnumber": "916281923366",

"vpa": "cnu@rapypay",

"mcc": "0000",

"mobile": "916281923366",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"appid": "com.olive.upi.rapypay",

"approvalRef": "1234",

"refurl": "",

"blockfund": "N",

"seqNum": "1"

}

**Response parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| timestamp(M) | String (max 50) | The timestamp format should be:YYYY-MM-DDTHH:mm:ss  Ex:2022-01-11T13:16:44 |
| latency(M) | String (max 10) | Latency time of the Transaction in Milliseconds |
| channelid | String (max 20) | channelid |
| txnid | String (fix 35) | Transaction ID |
| Data | String | Data |

**Sample json response:**

{

"code": "00000",

"result": "SUCCESS",

"timestamp": "2022-11-14T15:37:03.222",

"latency": "1161",

"subcode": "00000",

"subresult": "SUCCESS",

"channelid": "RAPAY1",

"txnid": "RPY45cadd145e134c11b717cb60e2b31ecc",

"data": "vkxzIcnp1bRMxIZeo02cqp78do8rieGP2GENbGcoa2Bk ------- \n"

}

# 2. One Time Mandate Pending list

Customers can receive the mandate list to payer PSP and payee PSP when mandates were created by merchants PSP. Using this API, PSP can display the list of pending approvals of Mandate create/update/pause

Method Type: POST

**URL:**

https://<IP:PORT>/v1/ppi/mandate/pending/list?channelid=RAPAY1&txnid=RPYahjajdvjvasj dvj

**request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| mobile | String (fix 12) | Customer Mobile number |
| handlerid | String (fix 1) | Handler ID |
| status | String (fix 1) | Status of the mandate |
| mandateType | String (max 10) | CREATE, MODIFY, PAUSE, UN PAUSE |

**Sample json request:**

{

"mobile": "916281923399",

"handlerid": "1",

"status": "P",

"mandateType": "create"

}

**Response parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| timestamp(M) | String (max 50) | The timestamp format should  be:YYYY-MM-DDTHH:mm:ss  Ex:2022-01-11T13:16:44 |
| latency(M) | String (max 10) | Latency time of the Transaction in Milliseconds |
| Data | | |
| amount | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| benename | String (max 50) | Beneficiary Name |
| expiryDate | String (max 20) | Expiry Date of the mandate |
| merchantflag | String (max 5) | Y|N |
| mobile | String (fix 12) | Mobile Number |
| notes | String (max 255) | Notes |
| payeeVpa | String (max 255) | Payee VPA |
| payerVpa | String (max 225) | Payer VPA |
| txnid | String (fix 35) | Transaction ID |
| mandateType | String (fix 6) | Type of the mandate |
| initmode | String (fix 2) | Initiation mode of the transaction. |
| purposecode | String (fix 2) | Purpose Code of the transaction |
| umn | String (fix 32) | Unique mandate number |
| amountRule | String (max 5) | MAX|EXACT |
| amountRuleValue | String (max 9) | amount |
| validity\_start | String (max 8) | Validity Start |
| validity\_end | String (max 5) | Validity End |
| recurrencePattern | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY  | BIMONTHLY | QUARTERLY |  HALFYEARLY | YEARLY |  ASPRESENTED | FORTNIGHTLY |
| custrefId | String (max 12) | Customer Reference Number |
| refid | String (max 35) | Unique Reference Number |
| sharewithpayee | String (fix 1) | Y | N  If it is N then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| isrevokable | String (fix 1) | Y | N  If Y, both payer and payee can cancel. If N, only payee can cancel the mandate.(payer does not cancel it).  -Y- for recurring |
| rule\_value | String (max 2) | * If frequency is weekly then recurrence value should be from 1- monday to   7-sunday   * If frequency is fortnightly then recurrence value should be from 1 to   15/16 days  If monthly/bimonthly/Quarterly/Halfyear ly/yearly then recurrence value should be from 1 to 30/31 days.If 30/31 is not available for any given month the last day of the month will be considered. |
| rule\_type | String (max 6) | * BEFORE | ON | AFTER |
| status | String (fix 1) | * Status of the mandate |
| createdDate | String (max 20) | * Created date |
| refUrl | String (max 99) | * Invoice URL |

**Sample json response:**

// Json String to be encrypted with AES/PGP and send in the payload parameter.

{

"code": "00000",

"result": "SUCCESS",

"timestamp": "2022-11-15T15:07:12",

"latency": "106",

"subcode": "00000",

"subresult": "SUCCESS",

"data": {

"txnid": "RPY08c328be551c49aeae7e96bffe898c00",

"mobile": "916281923399",

"payerVpa": "raja@rapypay",

"payeeVpa": "cnu@rapypay",

"beneName": "cnu",

"amount": "11.00",

"notes": "createMandate",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdhd2@rapypay",

"createdDate": "Nov 15, 2022 1:15:49 PM",

"expiryDate": "Nov 15, 2022 1:45:49 PM",

"status": "P",

"custrefId": "231913000089",

"refId": "5554165623",

"merchantflag": "N",

"mandateType": "CREATE",

"validity\_start": "15112022",

"validity\_end": "30112022",

"recurrencePattern": "ONETIME",

"amountRule": "MAX",

"isrevockable": "Y",

"purposecode": "00",

"refUrl": "https://olive.com"

}

}

# 3. One time authorization mandate

This API is used by PPI Channels for authorization. Approve or Decline Mandate Payee can initiate a mandate creation request, which needs to be approved or declined by the payer. This API allows Payer user to approve or decline the mandate created by payee.

Method Type: POST

**URL:**

https://<IP:PORT>/v1/ppi/mandate/onetime/authorization?channelid=RAPAY1&txnid=RPYahjaj dvjvasjdvj

**Request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| txnid(M) | String (fix 35) | Transaction Id (reqauthreceived the transaction id) |
| trantype(M) | String (max 10) | APPROVE | DECLINE |
| initiatedby(M) | String (fix 16) | PAYER, PAYEE |
| validitystart(M) | String (fix 8) | Validity Start Date |
| validityend(M) | String (fix 8) | Validity End Date |
| amountrule(M) | String (fix 5) | MAX | EXACT |
| recurrencePattern(M) | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY  | BIMONTHLY | QUARTERLY | HALF  YEARLY | YEARLY | ASPRESENTED |  FORTNIGHTLY |
| rule\_value(C) | String (max 2) | * If frequency is weekly, then recurrence value should be from 1- Monday to   7-sunday   * If frequency is fortnightly, then recurrence value should be from 1 to   15/16 days  If monthly/bimonthly/Quarterly/Half yearly/yearly, then recurrence value should be from 1 to 30/31 days. If 30/31 is not available for any given month the last day of the month will be considered. |
| rule\_type(C) | String (max 6) | BEFORE | ON | AFTER |
| revokeable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel.  If N, only payee can cancel the mandate. |
| sharetopayee(M) | String (fix 1) | Y | N  If it is N, then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| umn(C) | String (max 32) | Unique Mandate Number umn will be created by customer/Payer PSP & UMN length to be 32 digits in UUID Logic (the UMN should be random, non-guessable and active UMN should be unique. E.g format  130a977ccabb11e7abc4cec278b6b50a@myps p)   * In case of payer initiated, it is mandatory * In case of payee initiated, it is not required   That's why the field is mentioned as conditional |
| rrn(O) | String (max 12) | RRN |
| refid(O) | String (max 35) | Unique Reference Number |
| orderid(O) | String (max 35) | Order ID is used to populate the Consumer reference number to Identify (like Loan number, etc.) |
| amount(M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| initmode(M) | String (max 2) | Init mode |
| purpose(M) | String (max 2) | Purpose code |
| remarks(M) | String (max 50) | Remarks |
| payrefnumber(O) |  |  |
| device(M) | | |
| mobile(M) | String (fix 12) | Customer Mobile Number |
| geocode(M) | String (max 50) | Latitude and Longitude Ex: 12.9667,77.5667 |
| location(M) | String (max 50) | Ex:Sarjapur Road, Bangalore, KA, IN |
| ip(M) | String (max 50) | Source IP address. Ex: 123.456.123.123 |
| type(M) | String (max 10) | Device Type Ex: MOB |
| id(M) | String (max 15) | Device IMEI number |
| os(M) | String (max 50) | Device OS Ex: Android 4.4 |
| appid(M) | String (max 50) | UPI playstore registered appid, same appid used to generate in token calls |
| capability(O) | String (max 6) | Ex: 011001 |
| gcmid(O) | String (max 50) | GCMID generated by google |
| version(O) | String (max 50) | App version Ex: v1.0 |
| payerinfo(M) | | |
| name(M) | String (max 99) | Payer Name |
| accountnumber(M) | String (max 15) | Payer Account Number |
| vpa(M) | String (max 255) | Payer VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(M) | String (max 12) | Payer Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payer account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| payeeinfo(M) | | |
| name(O) | String (max 99) | Payee Name |
| accountnumber(O) | String (max 15) | Payee Account Number |
| vpa(M) | String (max 255) | Payee VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(O) | String (max 12) | Payee Mobile Number |
| accounttype(O) | String (max 10) | Type of the account |
| ifsc(O) | String (fix 11) | Payee account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| appid(O) | String (max 50) | Application Id |
| expiry(C) | String (1...64800) | For Payee initiated Mandate expiry is required.The value should be in minutes or the default value will be considered i.e. 30 |
| approvalRef(O) | String (max 255) | Approval Reference Number |
| refurl(O) | String (max 99) | Invoice URL |
| orgTxnid(O) | String (fix 35) | Original transaction id for the txn |
| orgtxnDate(O) | String (max 20) | Original transaction date |
| orgRrn(O) | String (fix 12) | Original RRN |
| blockfund(M) | String (fix 1) | (Y | N ) ,for one - time Mandate it will be Y\N  And for recurrence mandate it will be N. |
| seqNum(O) | String (max 2) | Sequence Number is used to identify mandate series.  - In case of mandate re-execute needs to use the same sequence number of failed transactions. |

**Sample json request:**

{

"txnid": "RPY206c81a52e464bfeb97f25643303227d",

"trantype": "APPROVE/DECLINE",

"initiatedby": "PAYER",

"validitystart": "27122022",

"validityend": "3012022",

"amountrule": "MAX",

"recurrencePattern": "ONETIME",

"revokeable": "Y",

"sharetopayee": "Y",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdr4v@rapypay",

"rrn": "231821000076",

"refid": "5554165623",

"orderid": "821329",

"amount": "11.00",

"initmode": "00",

"purpose": "00",

"remarks": "createMandate",

"device": {

"mobile": "916281923399",

"geocode": "17.5221503,78.3045558",

"location": "hyd",

"ip": "127.0.0.1",

"type": "MOB",

"id": "916281923399",

"os": "android",

"appid": "com.olive.upi.rapypay",

"capability": "110010"

},

"payerinfo": {

"name": "krishna",

"accountnumber": "916281923399",

"vpa": "raja@rapypay",

"mcc": "0000",

"mobile": "916281923399",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"payeeinfo": {

"name": "cnu",

"accountnumber": "916281923366",

"vpa": "cnu@rapypay",

"mcc": "0000",

"mobile": "916281923366",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"appid": "com.olive.upi.rapypay",

"expiry": "2022-12-22 17:41:20.324",

"refurl": "",

"orgTxnid": "RPY3b2019ad22b5411391b0aac062818477",

"orgtxnDate": "2022-12-22 17:11:20.312",

"orgrrn": "231821000076",

"blockfund": "N",

"seqNum": "1"

}

**Response parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code (M) | String (fix5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix5) | Sub error code |
| subresult(M) | String (max25 5) | Sub error description |
| timestamp(M) | String (max50) | The timestamp format should  be:YYYY-MM-DDTHH:mm:ss Ex:2022-01-11T13:16:44 |
| latency(M) | String (max10) | Latency time of the Transaction in Milliseconds |
| data | String | Encrypted String |

**Sample json response:**

{

"code": "00000",

"result": "SUCCESS",

"timestamp": "2022-11-14T15:37:03.222",

"latency": "1161",

"subcode": "00000",

"subresult": "SUCCESS",

"channelid": "RAPAY1",

"txnid": "RPY45cadd145e134c11b717cb60e2b31ecc",

"data": "vkxzIcnp1bRMxIZeo02cqp78do8rieGP2GENbGcoa2Bk ------- \n"

}

# 4. Modify mandate API

This API is used to modify existing mandates; merchants are only allowed to modify the validity end date and number of existing mandates.

Method Type: POST

**URL:**

https://<IP:PORT>/v1/ppi/mandate/modify?channelid=RAPAY1&txnid=RPYahjajdvjvasjdvj

**Request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| txnid(M) | String (fix 35) | Transaction Id |
| trantype(M) | String (max 10) | Onetime mandate: UPDATE/REVOKE  Recurrence mandate: UPDATE/REVOKE/PAUSE/UNPAUSE  UPDATE|PAUSE|UNPAUSE  Applicable only in recurrence mandate. |
| initiatedby(M) | String (fix 16) | PAYER,PAYEE |
| validitystart(M) | String (fix 8) | Defines start time of request validity |
| validityend(M) | String (fix 8) | Defines end time of request validity |
| amountrule(M) | String (fix 5) | MAX | EXACT |
| recurrencePattern  M) | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY |  BIMONTHLY | QUARTERLY | HALF YEARLY | YEARLY  | ASPRESENTED | FORTNIGHTLY |
| rule\_value(C) | String (max 2) | If frequency is weekly, then recurrence value should be from 1- monday to 7-sunday  If frequency is fortnightly, then recurrence value should be from 1 to 15/16 days  If monthly/bimonthly/Quarterly/Halfyearly/yearly, then recurrence value should be from 1 to 30/31 days.If 30/31 is not available for any given month the last day of the month will be considered. |
| rule\_type(C) | String (fix 6) | BEFORE | ON | AFTER |
| revokeable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel.  If N, only payee can cancel the mandate.payer does not cancel it. |
| sharetopayee(M) | String (fix 1) | Y | N  If it is N then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| umn(C) | String (max 32) | Unique Mandate Number  umn will be created by customer/Payer PSP & UMN length to be 32 digit in UUID Logic (the UMN should be random, nonguessable and active UMN should be unique. E.g format 130a977ccabb11e7abc4cec278b6b50a@mypsp)   * Incase of payer initiated, it is mandatory * Incase of payee initiated, it is not required That's why the field is mentioned as conditional |
| rrn(O) | String (max 12) | RRN |
| refid(O) | String (max 35) | Unique Reference Number |
| orderid(O) | String (max 35) | Order ID is used to populate the Consumer reference number to Identify (like Loan number, etc.) |
| amount(M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| initmode(M) | String (max 2) | Init mode |
| purpose(M) | String (max 2) | Purpose code |
| remarks(M) | String (max 50) | Remarks |
| payrefnumber(O) |  |  |
| device(M) | | |
| mobile(M) | String (fix 12) | Customer Mobile Number |
| geocode(M) | String (max 50) | Latitude and Longitude  Ex: 12.9667,77.5667 |
| location(M) | String (max 50) | Ex:Sarjapur Road, Bangalore, KA, IN |
| ip(M) | String (max 50) | Source IP address. Ex: 123.456.123.123 |
| type(M) | String (max 10) | Device Type Ex: MOB |
| id(M) | String (max 15) | Device IMEI number |
| os(M) | String (max 50) | Device OS Ex: Android 4.4 |
| appid(M) | String (max 50) | UPI playstore registered appid, same appid used to generate in token calls |
| capability(M) | String (max 6) | Ex: 011001 |
| gcmid(M) | String (max 50) | GCMID generated by google |
| version(M) | String (max 50) | App version Ex: v1.0 |
| payerinfo(M) | | |
| name(M) | String (max 99) | Payer Name |
| accountnumber(M) | String (max 15) | Payer Account Number |
| vpa(M) | String (max255) | Payer VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(M) | String (max 12) | Payer Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payer account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| payeeinfo(M) | | |
| name(M) | String (max 99) | Payee Name |
| accountnumber(M) | String (max 15) | Payee Account Number |
| vpa(M) | String (max 255) | Payee VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(M) | String (max 12) | Payee Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payee account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| appid(O) | String (max 50) | Application Id |
| expiry(C) | String (1...6480 0) | For Payee initiated Mandate expiry is required.The value should be in minutes or the default value will be considered I.e. 30 |
| approvalRef(O) | String (max 255) | Approval Reference Number |
| refurl(O) | String (max 99) | Invoice URL |
| orgTxnid(O) | String (fix 35) | Original transaction id for the txn |
| orgtxnDate(O) | String (max 20) | Original transaction date |
| orgRrn(O) | String (fix 12) | Original RRN |
| blockfund(M) | String (fix 1) | (Y | N ) ,for one - time Mandate it will be Y\N . And for recurrence mandate it will be N. |
| seqNum(O) | String (max 2) | Sequence Number is used to identify mandate series.  - In case of mandate re-execution, he needs to use the same sequence number of failed transactions. |

**Sample json request:**

{

"txnid": "RPYbff3eebfe397496baa3f994f820b55e9",

"trantype": "PAUSE",

"Initiatedby": "PAYER",

"Validitystart": "14112022",

"validityend": "12222022",

"amountrule": "MAX",

"recurrencePattern": "WEEKLY",

"rule\_value": "5",

"rule\_type": "ON",

"revokeable": "Y",

"sharetopayee": "Y",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdha4@rapypay",

"rrn": "45646665653",

"refid": "5554165623",

"orderid": "123456",

"amount": "11.00",

"initmode": "00",

"purpose": "00",

"remarks": "createMandate",

"payrefnumber": "0",

"device": {

"mobile": "916281923399",

"geocode": "17.5221503,78.3045558",

"location": "hyd",

"ip": "127.0.0.1",

"type": "MOB",

"id": "916281923399",

"os": "android",

"appid": "com.olive.upi.rapypay",

"capability": "110010"

},

"payerinfo": {

"name": "krishna",

"accountnumber": "916281923399",

"vpa": "raja@rapypay",

"mcc": "0000",

"mobile": "916281923399",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"payeeinfo": {

"name": "cnu",

"accountnumber": "916281923366",

"vpa": "cnu@rapypay",

"mcc": "0000",

"mobile": "916281923366",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"appid": "com.olive.upi.rapypay",

"approvalRef": "1234",

"refurl": "",

"blockfund": "N",

"seqNum": "1"

}

**Response parameters:**

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| timestamp(M) | String (max 50) | The timestamp format should  be:YYYY-MM-DDTHH:mm:ss Ex:2022-01-11T13:16:44 |
| latency(M) | String (max 10) | Latency time of the Transaction in Milliseconds |
| Data | String | Data |

**Sample json response:**

{

"code": "00000",

"result": "SUCCESS",

"timestamp": "2022-11-14T15:37:03.222",

"latency": "1161",

"subcode": "00000",

"subresult": "SUCCESS",

"channelid": "RAPAY1",

"txnid": "RPY45cadd145e134c11b717cb60e2b31ecc",

"data": "vkxzIcnp1bRMxIZeo02cqp78do8rieGP2GENbGcoa2Bk ------- \n"

}

# 5. Mandate Txn History

This API is used to get the transactions done on a particular mandate.

**URL:**

https://<IP:PORT>/v1/ppi/mandate/history?channelid=RAPAY1&txnid=RPYahjajdvjvasjdvj

**Sample Request:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| mobilenumber(M) | String (fix12) | Customer Mobile Number |
| mandateType(O) | String (max 10) | UPDATE,PAUSE,UNPAUSE/CREATE/REVOKE/E XECUTE |
| umn(O) | String (fix 32) | Unique Mandate Number |
| pageno(O) | String (fix 1) | Page Number |
| pagesize(O) | String (max 20) | Page Size |

**Sample json request:**

{

"mobilenumber": "916281923324",

"umn": "PYftcghvjbknfcgvhbbdsjkbvjsdhn6@rapypay",

"mandateType": "CREATE",

"pageno": "1",

"pagesize": "20"

}

Response parameters:

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| timestamp(M) | String (max 50) | The timestamp format should  be:YYYY-MM-DDTHH:mm:ss Ex:2022-01-11T13:16:44 |
| latency(M) | String (max 50) | Latency time of the Transaction in milliseconds. |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| Data | | |
| txnid | String (fix 35) | Transaction ID |
| type | String (fix 6) | Type of the mandate |
| rrn | String (max 20) | RRN of the respective transactions |
| datetime | String (max 20) | Date and Time |
| amount | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| debitaccount | String (max 20) | Debit Account |
| creditaccount | String (max 20) | Credit Account |
| debitvpa | String (max 255) | Debit VPA |
| debitbankname | String (max 50) | Debit Bank Name |
| creditbankname | String (max 50) | Credit Bank Name |
| status | String (fix 1) | Status of the mandate |
| remarks | String (max 50) | Remarks |
| expirydatetime | String (max 20) | Expiry date time of the transaction |
| queryclosercomment | String (max 99) | queryclosercomment |
| creditdebittype | String (max 10) | Credit Debit type |
| remittername | String (max 50) | Remitter Name |
| beneficiaryname | String (max 50) | Beneficiary Name |
| payeereversalrespcode | String (max 3) | Payee reversal response code applicable in case the transaction is deemed transaction only. |
| payerreversalrespcode | String (max 3) | Payer reversal response code applicable in case the transaction is deemed transaction only. |
| disputerc | String (max 25) | Dispute RC |
| disputestatus | String (max 25) | Dispute Status |
| merchantflag | String (max 5) | Y|N(Merchant is verifyed or not) |
| purposecode | String (max 2) | Purpose Code |
| initmode | String (max 2) | Init Mode |
| refcategory | String (fix 2) | If Invoice URL is present, then refCategory is mandatory. The refCategory field is used to identify the category of the transaction  00 - NULL |
| mcc | String (fix 4) | Mcc code 0000 - Person  Other than 0000 - for Merchants as per NPCI specs. |
| invoiceurl | String (max 100) | Invoice URL of the transaction, which is used to represent the invoice of the transaction if any. |

**Sample json fresponse:**

{

"code": "00000",

"result": "success",

"subcode": "TH000",

"subresult": "success",

"latency": "12345",

"timestamp": "2022-01-06T12:25:06",

"data": {

"txnid": "RAP10704cb7aca640f19fdefda6ccf622575",

"type": "PAY",

"rrn": "231115000048",

"datetime": "",

"amount": "5.00",

"debitamount": "5.00",

"debitvpa": "krishna@rapypay",

"debitbankname": "PPIW",

"creditbankname": null,

"status": "c",

"remarks": "UPI",

"expirydatetime": null,

"queryclosercomment": null,

"creditdebittype": "DEBIT",

"remittername": "krishna",

"beneficiaryname": "Npci Tester2",

"payeereversalrespcode": null,

"payerreversalrespcode": null,

"disputerc": null,

"disputestatus": null,

"merchantflag": null,

"purposecode": "00",

"initmode": "00",

"refcategory": null,

"mcc": "0000",

"invoiceurl": "https://olive.com"

}

}

# 6. Execute

This API is for requesting money corresponding to a mandate by Payee PSP. Like mandate execution

**URL:**

https://<IP:PORT>/v1/ppi/mandate/execute?channelid=RAPAY1&txnid=RPYahjajdvjvasjdvj

**Request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| txnid(M) | String (fix 35) | Transaction Id |
| trantype(M) | String (max 10) | DECLINE | EXECUTE |
| initiatedby(M) | String (fix 16) | PAYER\_INITIATED, PAYEE\_INITIATED |
| validitystart(M) | String (fix 8) | Validity Start Date |
| validityend(M) | String (fix 8) | Validity End Date |
| amountrule(M) | String (fix 5) | MAX | EXACT |
| recurrencePattern(M) | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY  | BIMONTHLY | QUARTERLY | HALF  YEARLY | YEARLY | ASPRESENTED |  FORTNIGHTLY |
| rule\_value(O) | String (max 2) | If frequency is weekly then recurrence value should be from 1- monday to 7-sunday  If frequency is fortnightly then recurrence value should be from 1 to 15/16 days  If monthly/bimonthly/Quarterly/Halfyear ly/yearly then recurrence value should be from 1 to 30/31 days.If 30/31 is not available for any given month the last day of the month will be considered. |
| rule\_type(O) | String (fix 6) | BEFORE | ON | AFTER |
| revokeable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel.  If N, only payee can cancel the mandate. |
| sharetopayee(M) | String (fix 1) | Y | N  If it is N then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| umn(C) | String (max 32) | Unique Mandate Number  umn will be created by customer/Payer PSP & UMN length to be 32 digit in UUID Logic (the UMN should be random, non-guessable and active UMN should be unique. E.g format  130a977ccabb11e7abc4cec278b6b50a@mypsp)  - Incase of payer initiated, it is mandatory  - Incase of payee initiated, it is not required  That's why the field is mentioned as conditional |
| rrn(O) | String (max 12) | RRN |
| refid(O) | String (max 35) | Unique Reference Number |
| orderid(O) | String (max 35) | Order ID is used to populate the Consumer reference number to Identify (like Loan number, etc.) |
| amount(M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| initmode(M) | String (max 2) | Init mode( 11 – Normal Mandate  Example -- 11 |
| purpose(M) | String (max 2) | 00-14 |
| remarks(M) | String (max 50) | Remarks |
| payrefnumber(O) |  |  |
| device(M) | | |
| mobile(M) | String (fix 12) | Customer Mobile Number |
| geocode(M) | String (max 50) | Latitude and Longitude Ex: 12.9667,77.5667 |
| location(M) | String (max 50) | Ex:Sarjapur Road, Bangalore, KA, IN |
| ip(M) | String (max 50) | Source IP address. Ex: 123.456.123.123 |
| type(M) | String (max 10) | Device Type Ex: MOB |
| id(M) | String (max 15) | Device IMEI number |
| os(M) | String (max 50) | Device OS Ex: Android 4.4 |
| appid(M) | String (max 50) | UPI playstore registered appid, same appid used to generate in token calls |
| capability(M) | String (max 6) | Ex: 011001 |
| gcmid(M) | String (max 50) | GCMID generated by google |
| version(M) | String (max 50) | App version Ex: v1.0 |
| payerinfo(M) | | |
| name(M) | String (max 99) | Payer Name |
| accountnumber(M) | String (max 15) | Payer Account Number |
| vpa(M) | String (max 255) | Payer VPA(umn)  Ex:  RPYftcghvjbknfcgvhbbdsjkbvjsdha4@rapypay |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(M) | String (max 12) | Payer Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payer account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| payeeinfo(M) | | |
| name(M) | String (max 99) | Payee Name |
| accountnumber(M) | String (max 15) | Payee Account Number |
| vpa(M) | String (max 255) | Payee VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(M) | String (max 12) | Payee Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payee account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| appid(O) | String (max 50) | Application Id |
| expiry(C) | String (1...64800) | For Payee initiated Mandate expiry is required.The value should be in minutes or the default value will be considered I.e. 30 |
| approvalRef(O) | String (max 255) | Approval Reference Number |
| refurl(O) | String (max 99) | Invoice URL |
| orgTxnid(O) | String (fix 35) | Original transaction id for the txn |
| orgtxnDate(O) | String (max 20) | Original transaction date |
| orgRrn(O) | String (fix 12) | Original RRN |
| blockfund(M) | String (fix 1) | (Y | N ) ,for one - time Mandate it will be Y\N . And for recurrence mandate it will be N. |
| expiry(C) | String (fix 20) | Expiry Date |
| seqNum(O) | String (max 2) | Sequence Number is used to identify mandate series.  - In case of mandate re-execute needs to use the same sequence number of failed transactions. |

**Sample json request:**

{

"txnid": "RPYbff3eebfe397496baa3f994f820b55e9",

"trantype": "CREATE",

"initiatedby": "PAYER",

"validitystart": "14112022",

"validityend": "30112022",

"amountrule": "MAX",

"recurrencePattern": "ONETIME",

"rule\_value": "0",

"rule\_type": "1",

"revokeable": "Y",

"sharetopayee": "Y",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdha4@rapypay",

"rrn": "45646665653",

"refid": "5554165623",

"orderid": "123456",

"amount": "11.00",

"initmode": "00",

"purpose": "00",

"remarks": "createMandate",

"payrefnumber": "0",

"device": {

"mobile": "916281923399",

"geocode": "17.5221503,78.3045558",

"location": "hyd",

"ip": "127.0.0.1",

"type": "MOB",

"id": "916281923399",

"os": "android",

"appid": "com.olive.upi.rapypay",

"capability": "110010"

},

"payerinfo": {

"vpa": "19731200320897495041506558907522@dhani",

"mcc": "0000"

},

"payeeinfo": {

"name": "cnu",

"accountnumber": "916281923366",

"vpa": "cnu@rapypay",

"mcc": "0000",

"mobile": "916281923366",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"appid": "com.olive.upi.rapypay",

"approvalRef": "1234",

"refurl": "",

"orgTxnid": "PLMjhagdsjdxgchvbnm12233ads",

"orgtxnDate": "2022-04-19T13:37:19+05:30",

"orgRrn": "45646665651",

"blockfund": "N",

"expiry": "2022-12-22T13:37:19+05:30",

"seqNum": "1"

}

**Response parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| timestamp(M) | String (max 50) | The timestamp format should  be:YYYY-MM-DDTHH:mm:ss Ex:2022-01-11T13:16:44 |
| latency(M) | String (max 10) | Latency time of the Transaction in Milliseconds |
| Data | String | Data |

**Sample json response:**

{

"code": "00000",

"result": "SUCCESS",

"timestamp": "2022-11-14T15:37:03.222",

"latency": "1161",

"subcode": "00000",

"subresult": "SUCCESS",

"channelid": "RAPAY1",

"txnid": "RPY45cadd145e134c11b717cb60e2b31ecc",

"data": "vkxzIcnp1bRMxIZeo02cqp78do8rieGP2GENbGcoa2Bk ------- \n"

}

# 7. Mandate Check Status API

This api is used to check the status of mandates.

**URL:** https://<IP:PORT>/v1/ppi/mandate/checkstatus?channelid=RAPAY1&txnid=RPYahjajdvjvasjdv

**request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| appid(O) | String (max 50) | UPI playstore registered appid, same appid used to generate in token calls |
| txnid(O) | String (fix 35) | Transaction ID |
| orgtxnid(M) | String (fix 35) | Original transaction id for the txn |
| umn(M) | String (fix 32) | Unique mandate number |
| mobile(M) | String (fix 12) | Customer Mobile number(who is create mandate that person mobile) |
| initiatedby(O) | String (fix 16) | PAYER,PAYEE |
| type(O) | String (fix ) | CREATE/UPDATE/REVOK E/EXECUTE |
| subtype(O) | String (fix ) | checkstatus |
| txnNote(O) | String (fix ) | checkstatus |
| initmode(M) | String (fix 2) | initionmode |
| purposecode(O) | String (fix 2) | Purpose code |
| orgmsgid(O) | String (fix 35) | Msgid of the respective transaction |
| orgdate(O) | String | Org transaction date |
| refCategory(O) |  | If Invoice URL is present, then refCategory is mandatory. The refCategory field is used to identify the category of the transaction  00 - NULL   * Advertisement * Invoice   Others for future use. |
| orgrrn(O) | String (fix 12) | rrn of the respective transaction. |

**Sample json request:**

{

"appid": "com.olive.upi.rapypay",

"initiatedby": "PAYEE",

"mobile": "mobile",

"orgtxnid": "RPYaf895ab2e5f840d68e8300ce11ed505d",

"subtype": "checkstatus",

"txnid": "RPYaf895ab2e5f840d68e8300ce11ed505l",

"txnNote": "Check Txn Status",

"type": "CREATE",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdhn6@rapypay"

}

**Response parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| timestamp(M) | String (max 50) | The timestamp format should  be:YYYY-MM-DDTHH:mm:ss  Ex:2022-01-11T13:16:44 |
| latency(M) | String (max 10) | Latency time of the Transaction in Milliseconds |
| Data |  |  |
| amount (M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| beneName(M) | String (max 50) | Beneficiary Name |
| expdate (M) | String (max 20) | Expiry Date of the mandate |
| merchantflag(M) | String (max 5) | Y|N(Merchant is verifyed or not) |
| mobile(M) | String (fix 12) | Mobile Number |
| notes(M) | String (max 255) | Notes |
| payeeVpa(M) | String (max 255) | Payee VPA |
| payerVpa(M) | String (max 225) | Payer VPA |
| txnid(M) | String (fix 35) | Transaction ID |
| mandatetype(M) | String (fix 6) | Type of the mandate |
| initmode (M) | String (fix 2) | Initiation mode of the transaction. |
| purposecode(M) | String (fix 2) | Purpose Code of the transaction |
| umn(M) | String (fix 32) | Unique mandate number |
| amountRule(M) | String (max 5) | MAX|EXACT |
| amountRuleValue(O) | String (max 9) | amount |
| validity\_start(M) | String (max 8) | Validity Start |
| validity\_end(M) | String (max 5) | Validity End |
| recurrencePattern(M) | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY  | BIMONTHLY | QUARTERLY |  HALFYEARLY | YEARLY |  ASPRESENTED | FORTNIGHTLY |
| refid(M) | String (fix 6) | Unique Reference Number |
| sharewithpayee(M) | String (fix 1) | Y | N  If it is N then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| isrevokable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel. If N, only payee can cancel the mandate.(payer does not cancel it).  -Y- for recurring |
| rule\_value(O) | String (max 2) | * If frequency is weekly then recurrence value should be from 1- monday to   7-sunday   * If frequency is fortnightly then recurrence value should be from 1 to   15/16 days  If monthly/bimonthly/Quarterly/Halfyear ly/yearly then recurrence value should be from 1 to 30/31 days.If 30/31 is not available for any given month the last day of the month will be considered. |
| rule\_type(O) | String (max 6) | * BEFORE | ON | AFTER |
| status(M) | String (fix 1) | Status of the mandate  "S" = SUCCESS  "F" = FAILED  "P" = PENDING "C" = COMPLETED  "R" = REJECTED || REVOKED  "E" = EXPIRED  "U" = UPDATE SUCCESS |
| createdate(M) | String (max 20) | Created date |
| refurl(M) | String (max 99) | Invoice URL |
| Mandate(M) | Object |  |

**Sample json response:**

{

"code": "00000",

"result": "SUCCESS",

"timestamp": "2022-11-14T15:37:03.222",

"latency": "1161",

"subcode": "00000",

"subresult": "SUCCESS",

"channelid": "RAPAY1",

" amount": "11.00",

"beneName": "krishna",

"expdate": "",

"merchantflag": "N",

"mobile": "916281923399",

"notes": "",

"payeeVpa": "raja@rapypay",

"payerVpa": "cnu@rapypay",

"txnid": "RPY1a9fd339b5d74376b053cc4fd3d274f0",

"mandatetype": "CREATE",

"initmode": "00",

"purposecode": "00",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdb34@rapypay",

"amountRule": "MAX",

"amountRuleValue": "",

"validity\_start": "10112022",

"validity\_end": "30112022",

"recurrencePattern": "ONETIME",

"refid": "5554165623",

"sharewithpayee": "",

"isrevokable": "",

"rule\_value": "",

"rule\_type": "",

"status": "",

"createdate": "Nov 10, 2022 4:09:32 PM",

"refurl": "https://olive.com"

}

# 8. Mandate Callback API

This api is used by payee to initiate a mandate request and the payer will receive the callback for authorization.

**URL:** https://<IP:PORT>/v1/ppi/mandate/callback

**request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| amount(M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| benename(M) | String (max 50) | Beneficiary Name |
| createdate(M) | String (max 20) | Ex format:2023-01-02 15:32:11.853 |
| expdate(M) | String (max 20) | For Payee initiated Mandate expiry is required.The value should be in minutes or  the default value will be considered I.e. 30 minutes  Ex:(2023-01-02 15:32:11.853)(2023-01-02 16:02:11.853) |
| merchantflag(O) | String (max 5) | Y|N(Merchant is verifyed or not) |
| mobile(M) | String (fix 12) | initiator mobile number  Ex: 91xxxxxxxxxx(who receive the the mandate notification that customer mobile number) |
| note(M) | String (max 255) | Note |
| payeeVpa(M) | String (max 255) | Payee VPA |
| payerVpa(M) | String (max 255) | Payer VPA |
| txnid(M) | String (fix 35) | Transaction Id |
| mandatetype(M) | String (max 10) | CREATE, UPDATE, PAUSE, UNPAUSE, REVOKE |
| initmode(M) | String (max 2) | Init mode |
| purposecode(M) | String (fix 2) | Purpose Code of the transaction |
| umn(M) | String (max 32) | Unique Mandate Number umn will be created by customer/Payer PSP & UMN length to be 32 digit in UUID Logic (the UMN should be random, non-guessable and active UMN should be unique. E.g format  130a977ccabb11e7abc4cec278b6b50a@mypsp) - Incase of payer initiated, it is mandatory  - Incase of payee initiated, it is not required That's why the field is mentioned as conditional |
| amountValue(M) | String (max 2) | Amount in rupees Ex:10.00 |
| amountRule(M) | String (fix 5) | MAX | EXACT |
| validity\_start(M) | String (max 8) | Validity Start |
| validity\_end(M) | String (max 8) | Validity End |
| recurrencePattern(M) | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY |  BIMONTHLY | QUARTERLY | HALF YEARLY |  YEARLY | ASPRESENTED | FORTNIGHTLY |
| rule\_value(O) | String (max 2) | - ONETIME, DAILY, AND ASPRESENTED should not have any rules |
| rule\_type(C) | String (max 6) | BEFORE | ON | AFTER |
| refid(M) | String (fix 6) | Unique Reference Number |
| sharewithpayee | String (fix 1) | Y | N  If it is N then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| isrevokable(M) | String (fix 1) | Y | N |
|  |  | If Y, both payer and payee can cancel.  If N, only payee can cancel the mandate.(payer does not cancel it).  -Y- for recurring |
| status(M) | String (fix 10) | Status |
| createdate(M) | String (max 20) | Created date |
| refurl(M) | String (max 99) | Invoice URL |
| initiatedby(M) | String (fix 16) | PAYER,PAYEE |

**Sample json request:**

{

"amount": "12.00",

"beneName": "cnu",

"expdate": "30122022",

"merchantflag": "0000",

"mobile": "916281923399",

"notes": "createMandate",

"payeeVpa": "cnu@rapypay",

"payerVpa": "raja@rapypay",

"txnid": "RPY33674a655d8a47de894ebbee363c9b64",

"mandatetype": "ONETIME",

"initmode": "00",

"purposecode": "00",

"amountValue": "12.00",

"amountRule": "MAX",

"validity\_start": "27122022",

"validity\_end": "30122022",

"recurrencePattern": "ONETIME",

"refid": "5554165623",

"sharewithpayee": "Y",

"isrevokable": "Y",

"status": "P",

"createdate": "2023-01-02 15:32:11.853",

"expdate": "2023-01-02 16:02:11.853",

"refurl": "https://olive.com",

"initiatedby": "PAYER"

}

# 9. CallBack Request - Final mandate create confirmation

This api is used to whenever mandate creation completed channel received the Confirmation

**URL:** https://<IP:PORT>/v1/ppi/mandate/confirmation

Request parameters:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| *payeeinfo(M)* | | |
| name(C) | String (max50) | name |
| accountnumber(O) | String (max50) | Payee Account number |
| vpa(M) | String (max255) | VPA |
| rule\_value(O) | String (max 2) | * If frequency is weekly then recurrence value should be from 1- monday to   7-sunday   * If frequency is fortnightly then recurrence value should be from 1 to 15/16 days   If monthly/bimonthly/Quarterly/Halfyear ly/yearly then recurrence value should be from 1 to 30/31 days.If 30/31 is not available for any given month the last day of the month will be considered. |
| rule\_type(O) | String (fix 6) | BEFORE | ON | AFTER |
| mcc(O) | String (fix4) | Mcc Code 0000 - Person  Other than 0000 - for Merchants as per NPCI specs. |
| accounttype(O) | String (max10) | accounttype |
| ifsc(O) | String (max50) | Payee account ifsc |
| *payerinfo(M)* | | |
| name(O) | String (max50) | Payer Name |
| accountnumber(O) | String (max50) | Payer account number |
| vpa (M) | String (max255) | VPA |
| mcc(O) | String (fix4) | Mcc code 0000 - Person  Other than 0000 - for Merchants as per NPCI specs. |
| accounttype(O) | String (max20) | accounttype |
| ifsc(O) | String (max50) | Payer account IFSC |
| respcode (M) | String (max3) | Payer reversal response code applicable in case the transaction is deemed transaction only. |
| *mandate(M)* | | |
| txnid(M) | String (fix 35) | Transaction Id |
| orgTxnid(M) | String (fix 35) | orgTxnid revoke mandate time it is getting |
| trantype(M) | String (max 10) | CREATE|UPDATE|REVOKE|PAUSE|UNPAUSE |
| initiatedby(M) | String (fix 16) | PAYER\_INITIATED,PAYEE\_INITIATED |
| validitystart(M) | String (fix 8) | Validity Start Date |
| validityend(M) | String (fix 8) | Validity End Date |
| amountrule(M) | String (fix 5) | MAX | EXACT |
| recurrencePatte rn(M) | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY |  BIMONTHLY | QUARTERLY | HALF YEARLY |  YEARLY | ASPRESENTED | FORTNIGHTLY |
| revokeable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel.  If N, only payee can cancel the mandate. |
| sharetopayee(M) | String (fix 1) | Y | N  If it is N then the payee psp should not notify the customer.  If it is Y, notify the payee PSP. |
| umn(C) | String (max 32) | Unique Mandate Number umn will be created by customer/Payer PSP & UMN length to be 32 digit in UUID Logic (the UMN should be random, non-guessable and active UMN should be unique. E.g format 130a977ccabb11e7abc4cec278b6b50a@mypsp)   * Incase of payer initiated, it is mandatory * Incase of payee initiated, it is not required   That's why the field is mentioned as conditional |
| refid(O) | String (max 35) | Unique Reference Number |
| orderid(O) | String (max 35) | Order ID is used to populate the Consumer reference number to Identify (like Loan number, etc.) |
| amount(M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| initmode(M) | String (max 2) | Init mode |
| purpose(M) | String (max 2) | Purpose code |
| remarks(M) | String (max 50) | Remarks |
| refurl(O) | String (max 99) | Invoice URL |
| blockfund(M) | String (fix 1) | (Y | N ) ,for one - time Mandate it will be Y\N . And for recurrence mandate it will be N. |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| type(O) | String (fix 15) | Type |
| status(O) | String (fix 10) | Status |

**Note:** PSP will expect http response code 200 as default Success in the response from PPI Channels for Callback request.

**Sample json response:**

// Json String to be encrypted with AES/PGP and sent in the payload parameter.

**1.Sample Mandate Collect Success case**

{

"trantype": "CREATE",

"orgStatus": "SUCCESS",

"note": "createMandate",

"payeeinfo": {

"name": "cnu",

"accountnumber": "916281923366",

"vpa": "cnu@rapypay",

"mcc": "0000",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"payerinfo": {

"name": "krishna",

"accountnumber": "916281923399",

"vpa": "raja@rapypay",

"mcc": "0000",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002",

"responsecode": "00"

},

"mandate": {

"txnid": "RPY3b2019ad22b5411391b0aac062818477",

"trantype": "CREATE",

"initiatedby": "PAYER",

"validitystart": "27122022",

"validityend": "30122022",

"amountrule": "MAX",

"recurrencePattern": "ONETIME",

"revokeable": "Y",

"sharetopayee": "Y",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdrk6@rapypay",

"refid": "5554165623",

"orderid": "585267",

"amount": "12.00",

"initmode": "00",

"purpose": "00",

"remarks": "UPI",

"refurl": "https://olive.com",

"blockfund": "Y"

},

"code": "00000",

"subcode": "00",

"result": "SUCCESS",

"subresult": "SUCCESS",

"subtype": "Respmandate",

"sustatus": "SUCCESS"

}

**2.Sample Create mandate Success**

{

"payeeinfo": {

"name": "cnu",

"accountnumber": "916281923366",

"vpa": "cnu@rapypay",

"mcc": "0000",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"payerinfo": {

"name": "krishna",

"accountnumber": "916281923399",

"vpa": "raja@rapypay",

"mcc": "0000",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002",

"responsecode": "00"

},

"mandate": {

"txnid": "RPY3b2019ad22b5411391b0aac062818477",

"trantype": "ONETIME",

"initiatedby": "PAYER",

"validitystart": "27122022",

"validityend": "30122022",

"amountrule": "MAX",

"recurrencePattern": "ONETIME",

"revokeable": "Y",

"sharetopayee": "Y",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdrk6@rapypay",

"refid": "5554165623",

"orderid": "585267",

"amount": "12.00",

"initmode": "00",

"purpose": "00",

"remarks": "UPI",

"refurl": "https://olive.com",

"blockfund": "Y"

},

"code": "00000",

"subcode": "00",

"result": "SUCCESS",

"subresult": "SUCCESS",

"type": "ReqMandateConfirmation",

"status": "SUCCESS"

}

**Revoke Mandate Callback**

{

"trantype": "REVOKE",

"orgStatus": "FAILURE",

"orgErrCode": "UM1",

"note": "ReqMandate",

"payeeinfo": {

"name": "NIKHIL GANGWAR",

"accountnumber": "918958309234",

"vpa": "8958309234@nye",

"mcc": "0000",

"a ccounttype": "PPIWALLET",

"ifsc": "PPIW0000001"

},

"payerinfo": {

"vpa": "8004829475@nye",

"mcc": "0000"

},

"mandate": {

"txnid": "RAPe816516b8eb647bbb8a97795af20a019",

"initiatedby": "PAYEE",

"validitystart": "10022023",

"validityend": "10022024",

"amountrule": "EXACT",

"rec urrencePattern": "ASPRESENTED",

"revokeable": "Y",

"umn": "RAPb0840ccd17a041b1bbb9a3 ea2dd35@rapypay",

"refid": "304117000872",

"orderid": "549350",

"amount": "550.00",

"initmode ": "00",

"purpose": "14",

"remarks": "UPI",

"orgTxnid": "RAP0aa05687248e46f694b74d29c0a386 5a",

"blockfund": "N"

},

"code": "00001",

"subcode": "PAUM1",

"result": "FAILURE",

"subresult": " RESPAUTHMANDATE DECLINED BY PSP",

"status": "FAILURE",

"subtype": "RespMandate"

}

**UpdateMandaetCallbcak**

{

"trantype": "UPDATE",

"orgStatus": "SUCCESS",

"note": "ReqMandate",

"payerinfo": {

"name": " 485720",

"vpa": "DIVAKAR VERMA",

"mcc": "00",

"accounttype": "6375135783@nye",

"ifsc": "916375135783",

"reversalcod e": "PPIW0000001"

},

"mandate": {

"txnid": "RAPf5136c97hhh44e4cnhy4fdgd3ll92kg",

"trantype ": "UPDATE",

"initiatedby": "PAYEE",

"validitystart": "17022023",

"validityend": "16042023",

"a mountrule": "MAX",

"recurrencePattern": "ASPRESENTED",

"revokeable": "Y",

"umn": "RAP5e 66504b90cb4ef2b1cbfe0647d1d@nye",

"refid": "304900001221",

"orderid": "412501",

"amount": "692.00",

"initmode": "00",

"purpose": "14",

"remarks": "UPI",

"orgTxnid": "RAPf5136c97hhh44e 4cnhy4fdgd3ll92kg",

"blockfund": "N"

},

"code": "00000",

"subcode": "00",

"result": "SUCCESS",

" subresult": "SUCCESS",

"subtype": "ReqMandateConfirmation/RespMandate"

}

# 10. Notification API:

Before 24 hrs customer got the notification

Payee executing mandate payee need to initiate the Notification API before 24 hrs for notifying the payer to maintain minimum amount on account

**URL:** https://<IP:PORT>v1/ppi/mandate/execute/prenotification?channelid=RAPAY1&txnid=RPYahjajd vjvasjdvjjhn

**request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| umn(M) | String (max 32) | RPYftcghvjbknfcgvhbbdsjkbvjsdr4v@rapypay |
| txnid(M) | String (max35) | Transaction id |
| orgtxnid(M) | String (max35) | mandate create confirmation txnid. |
| executiondate(M ) | Max Length 20 | 02-01-2020 12:10:13 |
| payervpa(M) | String | payer VPA |
| payeevpa(O) | String | payee VPA |
| merchantcode(O) | String (fix 4) | Merchant Category Code |
| aggregatorcode(O) | String (max 255) | aggregatorcode |
| amount(M) | String | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| appid(O) | String | appid |
| mobilenumber(M) | String | Mobile number |
| initmode(M) | String (fix 2) | Initiation mode(00-to 14) |
| remarks(O) | String | “MandateNotofication” |
| seqNum(M) | String | - SeqNum is used to identify the Mandate series. - In case of mandate re-execute need to use the same sequence number of failed transaction.  -Example: 1 |

**Sample json request:**

{

"umn": "AXId36a830a21bc45f58a03a1f06585a@axis",

"orgtxnid": "RRFPd9719c167eqwsderb0f69a6236l5mml",

"executiondate": "31-01-2024 17:54:00",

"payeevpa": "6375135783@nye",

"payervpa": "dayakar@axis",

"amount": "4.60",

"txnid": "RRFPd9719c167eqwsderb0f69a6236l5vcv",

"appid": "com.rapipay.olive",

"mobilenumber": "916375135783",

"initmode": "11 ",

"remarks": "notification",

"seqNum": "2"

}

# 11. Notification Callback API

Whenever payee initiates the Notification API payer will get notification callback.

**URL:** https://<IP:PORT>/v1/ppi/mandateexecute/prenotificationcallback

**request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| umn(M) | String (max 20) | Unique Mandate Number |
| execution\_time | String (max 50) | executiondate&time |
| amount | String (max 20) | Expiry Date of the mandate |
| note | String (max 5) | Mandate purpose |
| merchant\_metadata |  |  |
| merchant\_category \_code | String (max 4) | Merchant mcc Ex:1520,6012.. |
| merchant\_type | String (max 10) | Merchant small/large |
| merchant\_ref\_id | String (max 4) | Merchant reference id |
| remarks(O) | String | MandateNotofication |
| seqNum(M) | String | SeqNum is used to identify the Mandate series. |

**Sample json request:**

{

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdrhg@rapypay",

"sequenceNumber": "1",

"execution\_time": "12-12-2022",

"amount": "11.00",

"merchant\_metadata": {

"merchant\_category\_code": "1520",

"merchant\_type": "small",

"merchant\_ref\_id": "1520"

},

"payerinfo": {

"name": "mohan",

"accountnumber": "919000326833",

"vpa": "mohan@paulpay",

"mcc": "0000",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0885117",

"responsecode": "00"

},

"payeeinfo": {

"name": "Raksha Verma",

"accountnumber": "P00000024047",

"vpa": "raksha87@paulpay",

"mcc": "0000",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0885117",

"responsecode": "00"

},

"note": "notification",

"type": "MANDATE\_NOTIFICATION",

"subtype": "RespValCust",

"txnid": "PMFdf3626af2f355963kky6w14fb3rrytuu",

"code": "00000",

"subcode": "00",

"result": "SUCCESS",

"subresult": "SUCCESS",

"timestamp": "2024-02-08 18:11:59"

}

**Sample Notification Failure response:**

{

"umn": "4d06e7b23c334bde8ac62de17ce49242@okicici",

"sequenceNumber": "2",

"execution\_time": "2024-03-01T00:00:00+05:30",

"amount": "10.00",

"note": "Notification to payer",

"type": "MANDATE\_NOTIFICATION",

"subtype": "RespValCust",

"txnid": "RFPLa03268c79caf40018a31812be13d981",

"merchant\_metadata": {

"merchant\_category\_code": "6540",

"merchant\_ref\_id": "406111001343"

},

"code": "00001",

"subcode": "PA0QB",

"result": "FAILURE",

"subresult": "MANDATE IS ALREADY HONOURED",

"timestamp": "2024-03-01 11:53:04"

}

# 12. Mandate Collect Notification API

This API is used to communicate the incoming collect request from PSP to PPI Wallet channel .This api mandate execute scenario we are sending the collectnotification to the channel.

**URL:** https://<IP:PORT>/v1/ppi/collectnotification

**Request parameers:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| txnid(M) | String (fix35) | Transaction Id for API call (a unique ID generated on PPI Wallet Channel side).  Transaction id generated from UUID |
| mobile(M) | String (fix12) | Mobile Number of the customer. |
| umn(M) | String (max 32) | RPYftcghvjbknfcgvhbbdsjkbvjsdr4v@rapypay |
| payervpa(M) | String (max2 55) | Payer customer Vpa.(UMN ) |
| payeevpa(M) | String (max2 55) | Payee customer Vpa. |
| benename(M) | String (max50) | Beneficiary Account Name. |
| amount(M) | String (max2  0) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| remarks(O) | String (max2 55) | Passed by the PPI Partners. Which is used as a transaction note. Ex: Online Purchase. In case the ppi channel fails to send remarks then we send the default as UPIPPI to NPCI. Note : Allowing only below special characters and space .+\*@-\_ |
| umn(M) | String (max 32) | RPYftcghvjbknfcgvhbbdsjkbvjsdr4v@rapypay |
| payervpa(M) | String (max2 55) | Payer customer Vpa.(UMN ) |
| initiatedtime(M) | String (max2  0) | Initiated time |
| invoiceurl(O) | String (max100) | Invoice URL of the transaction, which is used to represent the invoice of the transaction if any. |
| payeecode(O) | String (fix5) | Payee Mcc code 0000 - Person  Other than 0000 - for Merchants as per NPCI specs. |
| refcategory(O) | String (max3) | If Invoice URL is present, then refCatergory is mandatory. The refCategory field is used to identify the category of the transaction   1. NULL   Advertisement 02- Invoice Others for future use. |
| initmode(M) | String (max2) | It is a mandate collect request  00 means it is normal collect  Ex:11 indicates it is a mandate collectrequest |
| purpose(O) | String (fix2) | Purpose code of the transaction. Refer section NO. 16 for more details.  14 indicates it is a recurrence mandate |
| seqNum(M) | String (max2) | - SeqNum is used to identify the Mandate series. - In case of mandate re-execute need to use the same sequence number of failed transaction.  -Example: 1 |
| collecttype(M) | String (max14) | It is identifying the mandate collect notification callback . |

**Sample json response:**

{

"txnid": "UCZd6d497a349f54f869e5d2a7231a834c3",

"Mobile": "916281923324",

"payervpa": "RFP7736afc0ef3343a9a938o574fipz8@rfp",

"payeevpa": "mamtpr1@mypsp",

"benename": "Customer",

"Amount": "12.00",

"expdate": "24-02-2023 15:14:59",

"Rrn": "305515160644",

"initiatedtime": "24-02-2023 15:04:59",

"invoiceurl": "www.test.co.in",

"Payeecode": "0000",

"Purpose": "01",

"initiationMode": "11",

"Seqnum": "1",

"collecttype": "MANDATECOLLECT"

}

# 13. Recurring pending mandates

This API is used for Recurring Mandate execution time Payer authorization required cases will get by Payer PSP.,executing scenario transaction amount>5K payer PSP needs to take approval from customer to process the mandate request. Using this API, One can get approval for executing pending mandates.

**URL:** https://<IP:PORT>/v1/ppi/mandate/recurring/pending/list?channelid=RAPAY1&txnid=RPYa hjajdvjvasjdvj

**Request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| mobile(M) | String (max 12) | Mobile Number |
| handlerid(O) | String (fix 1) | Handler ID |
| status(O) | String (fix 1) | Status of the mandate |
| mandateType(M) | String (max 10) | CREATE,MODIFY,PAUSE,UNPAU  SE |

**Sample json request:**

{

"handlerid": "1",

"mandateType": "create",

"mobile": "916281923324",

"status": "P"

}

**Response parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code (M) | String (fix 5) | Error code - status of the request  00000 – SUCCESS, 00091 – TIMEOUT, 00001 -FAILURE |
| result (M) | String (max 10) | SUCCESS/ FAILURE/TIMEOUT |
| subcode(M) | String (fix 5) | Sub error code |
| subresult(M) | String (max 255) | Sub error description |
| timestamp(M) | String (max 50) | The timestamp format should  be:YYYY-MM-DDTHH:mm:ss Ex:2022-01-11T13:16:44 |
| latency(M) | String (max 10) | Latency time of the Transaction in Milliseconds |
| Data | | |
| amount (M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| beneName(M) | String (max 50) | Beneficiary Name |
| expdate (M) | String (max 20) | Expiry Date of the mandate |
| merchantflag(O) | String (max 5) | Y|N |
| mobile(M) | String (fix 12) | Mobile Number |
| note(M) | String (max 255) | Notes |
| payeeVpa(M) | String (max 255) | Payee VPA |
| payerVpa(M) | String (max 225) | Payer VPA |
| txnid(M) | String (fix 35) | Transaction ID |
| mandatetype(M) | String (fix 6) | Type of the mandate |
| initmode (M) | String (fix 2) | Initiation mode of the transaction. |
| purposecode(M) | String (fix 2) | Purpose Code of the transaction |
| umn(M) | String (fix 32) | Unique mandate number |
| amountRule(M) | String (max 5) | MAX|EXACT |
| amountRuleValue(M) | String (max 9) | amount |
| validity\_start(M) | String (max 8) | Validity Start |
| validity\_end(M) | String (max 5) | Validity End |
| recurrencePattern(M) | String (max 15) | ONETIME | DAILY | WEEKLY | MONTHLY  | BIMONTHLY | QUARTERLY |  HALFYEARLY | YEARLY |  ASPRESENTED | FORTNIGHTLY |
| refid(M) | String (max 35) | Unique Reference Number |
| sharewithpayee(O) | String (fix 1) | Y | N |
|  |  | If it is N then the payee psp should not notify the customer. If it is Y, notify the payee PSP. |
| isrevokable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel. If N, only payee can cancel the mandate.(payer does not cancel it). |
| rule\_value(C) | String (max 2) | * If frequency is weekly then recurrence value should be from 1- monday to   7-sunday   * If frequency is fortnightly then recurrence value should be from 1 to   15/16 days  If monthly/bimonthly/Quarterly/Halfyear ly/yearly then recurrence value should be from 1 to 30/31 days.If 30/31 is not available for any given month the last day of the month will be considered. |
| rule\_type(C) | String (max 6) | BEFORE | ON | AFTER |
| status(P) | String (fix 1) | Status of the mandate |
| createdate(M) | String (max 20) | Created date |
| refurl(M) | String (max 99) | Invoice URL |

# 14. Recurring authorization mandates

This API is used to Approve or Decline Execution Recurring Mandate by PayerPSP.

Approve or Decline Mandate Payee can initiate a mandate executionrequest, which needs to be approved or declined by the payer PSP. This API allows users to approve or decline the mandate executed by payee.

**URL:** https://<IP:PORT>/v1/ppi/mandate/recurring/authorization?channelid=RAPAY1&txnid=RPYahj ajdvjvasjdvj

**Request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| txnid(M) | String (fix 35) | Transaction Id |
| trantype(M) | String (max 10) | MANDATECOLLECTAPPROVE|DECLINE|BLOCK |
| initiatedby(M) | String (fix 16) | PAYEE |
| validitystart(M) | String (fix 8) | Validity Start Date |
| validityend(M) | String (fix 8) | Validity End Date |
| amountrule(M) | String (fix 5) | MAX | EXACT |
| recurrencePattern(M) | String (max 15) | DAILY | WEEKLY | MONTHLY |  BIMONTHLY | QUARTERLY | HALF  YEARLY | YEARLY | ASPRESENTED |  FORTNIGHTLY |
| revokeable(M) | String (fix 1) | Y | N  If Y, both payer and payee can cancel.  If N, only payee can cancel the mandate. |
| sharetopayee(M) | String (fix 1) | Y|N  If it is Y then the payee psp should notify the customer.If it is N then the payee psp should not notify the customer. |
| umn(C) | String (max 32) | Unique Mandate Number  umn will be created by customer/Payer PSP & UMN length to be 32 digit in UUID Logic (the UMN should be random, non-guessable and active UMN should be unique. E.g format 130a977ccabb11e7abc4cec278b6b50a@myps p)   * Incase of payer initiated, it is mandatory * Incase of payee initiated, it is not required   That's why the field is mentioned as conditional |
| rrn(O) | String (max 12) | RRN |
| refid(O) | String (max 35) | Unique Reference Number |
| orderid(O) | String (max 35) | Order ID is used to populate the Consumer reference number to Identify (like Loan number, etc.) |
| amount(M) | String (max 20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| initmode(M) | String (max 2) | Init mode |
| purpose(M) | String (max 2) | Purpose code - 14 (for recurrence mandate) |
| remarks(M) | String (max 50) | Remarks |
| payrefnumber(O) |  |  |
| device(M) | | |
| mobile(M) | String (fix 12) | Customer Mobile Number |
| geocode(M) | String (max 50) | Latitude and Longitude Ex: 12.9667,77.5667 |
| location(M) | String (max 50) | Ex:Sarjapur Road, Bangalore, KA, IN |
| ip(M) | String (max 50) | Source IP address. Ex: 123.456.123.123 |
| type(M) | String (max 10) | Device Type Ex: MOB |
| id(M) | String (max 15) | Device IMEI number |
| os(M) | String (max 50) | Device OS Ex: Android 4.4 |
| appid(M) | String (max 50) | UPI playstore registered appid, same appid used to generate in token calls |
| capability(M) | String (max 6) | Ex: 011001 |
| gcmid(M) | String (max 50) | GCMID generated by google |
| version(M) | String (max 50) | App version Ex: v1.0 |
| payerinfo(M) | | |
| name(M) | String (max 99) | Payer Name |
| accountnumber(M) | String (max 15) | Payer Account Number |
| vpa(M) | String (max 255) | Payer VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(M) | String (max 12) | Payer Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payer account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| payeeinfo(M) | | |
| name(M) | String (max 99) | Payee Name |
| accountnumber(M) | String (max 15) | Payee Account Number |
| vpa(M) | String (max 255) | Payee VPA |
| mcc(M) | String (fix 4) | Merchant Classification Code |
| mobile(M) | String (max 12) | Payee Mobile Number |
| accounttype(M) | String (max 10) | Type of the account |
| ifsc(M) | String (fix 11) | Payee account IFSC code |
| reversalcode(O) | String (max ) |  |
| responsecode(O) | String (max ) |  |
| appid(O) | String (max 50) | Application Id |
| expiry(O) | String (1...64800) | For Payee initiated Mandate expiry is required.The value should be in minutes or the default value will be considered I.e. 30 |
| approvalRef(O) | String (max 255) | Approval Reference Number |
| refurl(O) | String (max 99) | Invoice URL |
| orgTxnid(O) | String (fix 35) | Original transaction id for the txn |
| orgtxnDate(O) | String (max 20) | Original transaction date |
| orgRrn(O) | String (fix 12) | Original RRN |
| blockfund(M) | String (fix 1) | (Y | N ) ,for one - time Mandate it will be Y\N . And for recurrence mandate it will be N. |
| seqNum(O) | String (max 2) | Sequence Number is used to identify mandate series.   * In case of mandate re-execute needs to   use the same sequence number of failed transactions. |

**Sample json request:**

{

"txnid": "RPYbff3eebfe397496baa3f994f820b55e9",

"trantype": "CREATE",

"initiatedby": "PAYEE",

"validitystart": "14112022",

"validityend": "30112022",

"amountrule": "MAX",

"recurrencePattern": "ASPRESENTED",

"revokeable": "Y",

"sharetopayee": "Y",

"umn": "RPYftcghvjbknfcgvhbbdsjkbvjsdha4@rapypay",

"rrn": "45646665653",

"refid": "5554165623",

"orderid": "123456",

"amount": "11.00",

"initmode": "00",

"purpose": "14",

"remarks": "createMandate",

"payrefnumber": "0",

"device": {

"mobile": "916281923399",

"geocode": "17.5221503,78.3045558",

"location": "hyd",

"ip": "127.0.0.1",

"type": "MOB",

"id": "916281923399",

"os": "android",

"appid": "com.olive.upi.rapypay",

"capability": "110010"

},

"payerinfo": {

"name": "krishna",

"accountnumber": "916281923399",

"vpa": "raja@rapypay",

"mcc": "0000",

"mobile": "916281923399",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"payeeinfo": {

"name": "cnu",

"accountnumber": "916281923366",

"vpa": "cnu@rapypay",

"mcc": "0000",

"mobile": "916281923366",

"accounttype": "PPIWALLET",

"ifsc": "PPIW0000002"

},

"appid": "com.olive.upi.rapypay",

"approvalRef": "1234",

"refurl": "",

"orgTxnid": "PLMjhagdsjdxgchvbnm12233ads",

"orgtxnDate": "2022-04-19T13:37:19+05:30",

"orgRrn": "45646665651",

"blockfund": "N",

"expiry": "2022-12-22T13:37:19+05:30",

"seqNum": "1"

}

# 15. CallBack Request - Final Payment confirmation

This api is used whenever the completion of the mandate execution channel receives the confirmation.(like as pay confirmation callbacks only)

**URL:** https://<IP:PORT>/v1/ppi/pay/confirmation

**Request parameters:**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| code(M) | String (fix5) | code |
| result(M) | String (max50) | result |
| txnid(M) | String (fix35) | Txnid which is received in the Pay api url the Same will be ecobacked here.  Transaction Id for API call (a unique ID generated on PPI Wallet Channel side).  Transaction id generated from UUID |
| txntype (M) | String (max10) | Transaction Type (COLLECT) |
| subtype(M) | String (max10) | Transaction SubType (RespPay | ReqTxnConfirmation).  PPI Channel as a payer psp will receive the subtype as RespPay.  PPI Channel as a payee psp will receive the subtype as ReqTxnConfirmation. |
| rrn(M) | String (max20) | RRN of respective transaction |
| orderid(O) | String (max20) | If we scan the dynamic QRcode order id present in that request we are passed. |
| amount(M) | String (max20) | Transaction amount needed to pass in the format of xxxxxx.xx. Ex:- 11.00 |
| initmode(M) | String (fix2) | Initiation mode of the transaction. Refer section NO. 17 for more details. |
| purpose(M) | String (fix2) | Purpose code of the transaction. Refer section NO. 16 for more details. |
| remarks(M) | String (max255) | Passed by the PPI Partners. Which is used as a transaction note. Ex: Online Purchase. In case the ppi channel fails to send remarks then we send the default as UPIPPI to NPCI. Note : allowing below special characters and space .+\*@-\_ |
| *payerinfo(M)* | | |
| name(C) | String (max50) | name |
| accountnumber(O) | String (max50) | Payer Account number |
| vpa(M) | String (max255) | VPA |
| mcc(O) | String (fix4) | Payer Mcc Code 0000 - Person  Other than 0000 - for Merchants as per NPCI specs. |
| mobile(O) | String (fix12) | mobile |
| accounttype(O) | String (max10) | accounttype |
| ifsc(O) | String (max50) | Payer account ifsc  reversalcode(O)String (max3)  Payer reversal response code applicable in case the transaction is deemed transaction only. |
| *payeeinfo(M)* | | |
| name(O) | String (max50) | Payee Name |
| accountnumber(O) | String (max50) | Payee account number |
| vpa (M) | String (max255) | VPA |
| mcc(O) | String (fix4) | Payee Mcc code 0000 - Person  Other than 0000 - for Merchants as per NPCI specs. |
| mobile(O) | String (fix12) | mobile |
| accounttype(O) | String (max20) | accounttype |
| ifsc(O) | String (max50) | Payee account IFSC |
| reversalcode(O) | String (max3) | Payee reversal response code applicable in case the transaction is deemed transaction only. |

**Note:** PSP will expect http response code 200 as default Success in the response from PPI Channels for Callback request.

1. Sample JSON Request:

// Json String to be encrypted with AES/PGP and sent in the payload parameter.

**1.Sample Collect Success case**

{

"code": "00000",

"result": "SUCCESS",

"txnid": "TSP56765678765678765678",

"trantype": "COLLECT",

"subtype": "ReqTxnConfirmation",

"rrn": "678909876",

"orderid": "67865678678",

"amount": "10.00",

"initmode": "00",

"purpose": "00",

"remarks": "Test",

"payerinfo": {

"name": "abcd",

"accountnumber": "9949889896",

"vpa": "customer1@ppi",

"accounttype": "BANKWALLET",

"ifsc": "RTB00000012"

},

"payeeinfo": {

"name": "aabb",

"accountnumber": "9949889897",

"vpa": "customer2@ppi",

"accounttype": "BANKWALLET",

"ifsc": "RTB00000012"

},

"status": "SUCCESS",

"refurl": "https://ppi.com",

"createdate": "2022-02-18 00:52:50",

"subcode": "PA000",

"subresult": "SUCCESS",

"latency": "1000",

"timestamp": "2022-02-18T00:52:50+05:30"

}

**2. Sample Collect Failure**

{

"code": "00001",

"result": "FAILURE",

"txnid": "TSP56765678765678765678",

"trantype": "COLLECT",

"subtype": "ReqTxnConfirmation",

"rrn": "678909876",

"orderid": "67865678678",

"amount": "10.00",

"initmode": "00",

"purpose": "00",

"remarks": "Test",

"payerinfo": {

"name": "abcd",

"accountnumber": "9949889896",

"vpa": "customer1@ppi",

"accounttype": "BANKWALLET",

"ifsc": "RTB00000012",

"reversalcode": "00"

},

"payeeinfo": {

"name": "abcd",

"accountnumber": "9949889897",

"vpa": "customer2@ppi",

"accounttype": "BANKWALLET",

"ifsc": "RTB00000012",

"reversalcode": "00"

},

"status": "FAILURE",

"refurl": "https://ppi.com",

"createdate": "2022-02-18 00:52:50",

"subcode": "PAU30",

"latency": "1000",

"timestamp": "2022-02-18T00:52:50+05:30"

}

**3. Sample Pay Success**

{

"code": "00000",

"result": "SUCCESS",

"txnid": "TSP56765678765678765678",

"trantype": "PAY",

"subtype": "RespPay",

"rrn": "678909876",

"orderid": "67865678678",

"amount": "10.00",

"initmode": "00",

"purpose": "00",

"remarks": "Test",

"payerinfo": {

"name": "abcd",

"accountnumber": "9949889896",

"vpa": "customer1@ppi",

"accounttype": "BANKWALLET",

"ifsc": "RTB00000012"

},

"payeeinfo": {

"name": "abcd",

"accountnumber": "9949889897",

"vpa": "customer2@ppi",

"accounttype": "BANKWALLET",

"ifsc": "RTB00000012"

},

"status": "SUCCESS",

"refurl": "https://ppi.com",

"createdate": "2022-02-18 00:55:55",

"subcode": "PA000",

"subresult": "SUCCESS",

"latency": "1000",

"timestamp": "2022-02-18T00:55:55+05:30"

}

**Error codes:**

|  |  |
| --- | --- |
| **Error Code** | **Description** |
| **1.1 Initiate Mandate** | |
| 00 | Success |
| 91 | TimeOut |
| 09 | UMN Not required( Payee initiate mandate) |
| OM08 | Device details not found(Payer / Payee) |
| OM07 | VPA not found(Payer / Payee) |
| OM04 | Invalid Account (Payer / Payee) |
| OM03 | Invalid Customer(Payer / Payee) |
| **Modify** | |
| 00 | Success |
| 91 | TimeOut |
| 11 | Mandate Not Created/ original mandate not found |
| OM14 | Modify mandate mis-up with original details |
|  | |
| 00 | Success |
| 91 | TimeOut |
| OM11 | UMN not found |
| **Approve or Decline Authorize Mandate** | |
| 00 | Success |
| 91 | TimeOut |
| 03 | Customer Not Found |
| 08 | Device Details Not Found |
| 02 | Pending Request TXNID not found! |
| 04 | Account Not Found |
| OM07 | VPA NotFound |
| **Initiate Transaction for Mandate** | |
| 00 | Success |
| 91 | TimeOut |
| OLME1 | Mandate Not Found |
| OLME2 | Invalid Transaction |
| OLME3 | Mandate can be executed only on/after start date |
| OLME4 | Already Expired Mandate |
| OM03 | Customer Not Found !! |
| OM07 | Invalid Vpa |
| OM04 | Customer Accounts not found |
| 09 | Network Error |
|  | |
| 00 | Success |
| 91 | TimeOut |
| **Get Transactions for Mandate** | |
| 00 | Success |
| 91 | TimeOut |
| **Chk Txn** | |
| 00 | Success |
| 91 | TimeOut |
| **Get Recurring Execution Pending Mandate** | |
| 00 | Success |
| 91 | TimeOut |
| **Authorize Execution Recurring Mandate** | |
| 00 | Success |
| 91 | TimeOut |
| 02 | Pending Request TXNID not found! |
| 02 | Transaction action already taken, Please check status in transaction history |
| 03 | Expired transaction! |